CLIPPEDIMAGE= WO009633306A1

PAT-NO: WO009633306A1

DOCUMENT-IDENTIFIER: WO 9633306 A1

TITLE: THERMAL-INSULATION ELEMENT MADE OF VEGETABLE FIBRES

PUBN-DATE: October 24, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

ZIMMER, HUGO

AT

ASSIGNEE-INFORMATION:

NAME

COUNTRY

ECCO GLEITTECHNIK GMBH

DE

ZIMMER HUGO

AΤ

APPL-NO: EP09601658

APPL-DATE: April 19, 1996

PRIORITY-DATA: DE29506761U (April 21, 1995)

INT-CL (IPC): D04H001/60; D04H001/54; D04H013/00

EUR-CL (EPC): D04H001/60; D04H001/54, E04B001/76

ABSTRACT:

CHG DATE=19990617 STATUS=O>The invention concerns a thermal-insulation element made of vegetable fibres, the element consisting of a non-woven with a random three-dimensional structure. The non-woven used is a particularly high-volume one with a density </= 25 kg/m<3>.

----- KWIC -----

Document Identifier - DID:

WO 9633306 A1

DERWENT-ACC-NO: 1996-485807

DERWENT-WEEK: 200115

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TITLE: High-vol. thermal insulation element - comprises nonwoven fabric made

of vegetable fibres, with a random 3-dimensional structure, isotropic fibre

orientation and low density

INVENTOR-NAME: ZIMMER, H

PRIORITY-DATA: 1995DE-2006761 (April 21, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUA	GE PA	AGES	MAIN-IPC
WO 9633306 A1	October 24, 1996	G	015	D04H	001/60
DE 59606409 G	March 8, 2001	N/A	000	D04H (001/60
DE 29506761 U1	October 31, 1996	N/A	800	D04H	001/42
AU 9656909 A	November 7, 1996	N/A	000	D04F	I 001/60
CZ 9703273 A3	January 14, 1998	N/A	000	D04H	001/04
EP 821746 A1	February 4, 1998	G	000	D04H 00	1/60
HU 9801814 A2	November 30, 1998	N/A	000	D04	H 001/60
EP 821746 B1	January 31, 2001	G	000	D04H 00	1/60

INT-C_(IPC): D04H001/04; D04H001/40; D04H001/42; D04H001/54; D04H001/58; D04H001/60; D04H001/64; D04H013/00; D06N007/00;

E04B001/74; E04C002/16

ABSTRACTED-PUB-NO: EP 821746B

BASIC-ABSTRACT: An insulation element made of vegetable fibres is claimed, in the form of non-woven fabric with a random 3-dimensional structure, isotropic fibre orientation and a density of not more than 25 kg/m3.

USE - Used esp. for thermal insulation and sound insulation.

ADVANTAGE - Provides an insulation element with a low density and good insulating properties, based on vegetable fibres.

ABSTRACTED-PUB-NO: WO 9633306A

EQUIVALENT-ABSTRACT: An insulation element made of vegetable fibres is claimed, in the form of non-woven fabric with a random 3-dimensional structure, isotropic fibre orientation and a density of not more than 25 kg/m3.

USE - Used esp. for thermal insulation and sound insulation.

ADVANTAGE - Provides an insulation element with a low density and good insulating properties, based on vegetable fibres.

12/09/2002, EAST Version: 1.03.0002

KWIC						
Document Identifier - DID:						

WO 9633306 A1

12/09/2002, EAST Version: 1.03.0002



L Number	Hits	Search Text	DB	Time stamp
1	1	wo-9012906-\$.did.	EPO;	2002/12/09 14:53
_			DERWENT	
6	27	(ret or retting ore retted) same (((disk or disc) near2 (refining or refiner or	USPAT;	2002/12/09 15:56
-		refined or refine)) or hammermill\$3 or hammer-mill\$3)	US-PGPUB	
7	0	(ret or retting or retted) same (((disk or disc) near2 (refining or refiner or	USPAT;	2002/12/09 15:46
		refined or refine)) or hammermill\$3 or hammer-mill\$3)	US-PGPUB	
8	0	(ret or retting or retted) and (((disk or disc) near2 (refining or refiner or	EPO; JPO;	2002/12/09 15:45
		refined or refine)) or hammermill\$3 or hammer-mill\$3)	DERWENT	
9	11	(ret or retting or retted) and (((disk or disc) near2 (refining or refiner or	USPAT;	2002/12/09 15:50
		refined or refine)) or hammermill\$3 or hammer-mill\$3)	US-PGPUB	
10	9	(US-5981024-\$ or US-6296737-\$ or US-6074524-\$ or US-5858172-\$ or	USPAT;	2002/12/09 15:51
		US-RE31862-\$ or US-3808090-\$).did. or (GB-2021030-\$).did. or	EPO;	
		(EP-422174-\$).did.	DERWENT	
11	5	(ret or retted or retting) and ((US-5981024-\$ or US-6296737-\$ or	USPAT;	2002/12/09 15:52
		US-6074524-\$ or US-5858172-\$ or US-RE31862-\$ or US-3808090-\$).did.	US-PGPUB	
:		or (GB-2021030-\$).did. or (EP-422174-\$).did.)		
12	3	(ret or retted or retting) with (digester or steam or liquor)	USPAT;	2002/12/09 15:55
			US-PGPUB	
13	1527	(ret or retting ore retted) same (refining or refiner or refined or refine)	USPAT;	2002/12/09 15:57
			US-PGPUB	
14	9	(ret or retting or retted) same (refining or refiner or refined or refine)	USPAT;	2002/12/09 16:00
;			US-PGPUB	
15	17	(retting or retted) and (refining or refiner or refined or refine)	USPAT;	2002/12/09 16:00
			US-PGPUB	
16	15	((retting or retted) and (refining or refiner or refined or refine)) not ((ret or	USPAT;	2002/12/09 16:55
		retting or retted) same (refining or refiner or refined or refine))	US-PGPUB	
17	311	(162/97,98).CCLS.	USPAT;	2002/12/09 16:56
		## ## ## ## ## ## ## ## ## ## ## ## ##	US-PGPUB	2002/12/02 16 55
18	1	fibrillat\$3 and ((162/97,98).CCLS.)	USPAT;	2002/12/09 16:57
		(7) 11 .00 (1) 1 1 1 1 (1) 1 1 1 1 1 (1)	US-PGPUB	0000/10/00 17 00
19	513	fibrillat\$3 same (adhesive or binder or ((bonding or binding) adj1 (fiber or	USPAT;	2002/12/09 17:09
20	12025	agent or material or resin or substance or composition)))	US-PGPUB	2002/12/00 17:05
20	12935	(air\$1laid or air\$1laying or air\$1lay or dry-form\$3 or dryform\$3 or ((air or	USPAT; US-PGPUB	2002/12/09 17:05
21	24	dry) adj1 (lay or laying or laid or form\$3))).ti,ab,bsum,clm.	US-PGPUB USPAT;	2002/12/09 17:09
21	24	(fibrillat\$3 same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent or material or resin or substance or composition)))) and ((air\$1laid or	US-PGPUB	2002/12/09 17.09
		air\$11aying or air\$11ay or dry-form\$3 or dryform\$3 or ((air or dry) adj 1 (lay	US-FUFUB	
		or laying or laid or form\$3))).ti,ab,bsum,clm.)		
22	624	(flax or hemp) same (adhesive or binder or ((bonding or binding) adj1 (fiber	USPAT;	2002/12/09 17:11
44	024	or agent or material or resin or substance or composition)))	US-PGPUB	2002/12/09 17.11
23	32	((air\$1laid or air\$1laying or air\$1lay or dry-form\$3 or dryform\$3 or ((air or	USPAT;	2002/12/09 17:11
23	32	dry) adj1 (lay or laying or laid or form\$3))).ti,ab,bsum,clm.) and ((flax or	US-PGPUB	2002/12/09 17.11
		hemp) same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent	03-1 01 01	
		or material or resin or substance or composition))))		
		or material or resili or substance of composition)))	1	<u> </u>